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eastern corner of the park. Dr. Robert A. Muttkowsky has been making an investigation of the fish food producing capacity of the trout streams, and Dr. Gilbert M. Smith the relation of the aquatic plants to this fish food supply. Mr. Edward R. Warren, assisted by Mr. Ellis L. Spackman, is making an intensive study of the beaver, including the mapping of their dams and ponds. Another friend of the station has made it possible for Mr. Edmund Heller, formerly naturalist on the Roosevelt African Expedition, to conduct for the station an investigation of the status of the large game mammals of the park.

SCIENTIFIC NOTES AND NEWS

At the opening session of the New York meeting of the American Chemical Society, which will be held at Columbia University, New York City, on September 8, Dr. Edgar F. Smith, provost emeritus of the University of Pennsylvania, will preside, and addresses will be made by Mr. Herbert C. Hoover, secretary of the Department of Commerce, and Sir William Pope, president of the British Society of Chemical Industry.

THE French Association for the Advancement of Science met during the first week in August at Rouen under the presidency of M. Rateau.

DR. HENRY GORDON GALE, professor of physics in the University of Chicago, and dean of the colleges of science, has been made chairman of the division of Physical Science of the National Research Council, Washington, D. C.

DR. HENRY H. DONALDSON, professor of neurology at the Wistar Institute, has been elected a foreign corresponding member of Il Reale Istituto Lombardo di Scienze e Lettere di Milano.

PROFESSOR HEINRICH O. HOFFMAN, of the Massachusetts Institute of Technology, has been elected an honorary member of the American Institute of Mining and Metallurgy.

DR. WALTER NERNST, professor of chemistry, has been elected rector of the Berlin University.

MR. J. SHEPPARD, of the Municipal Museums at Hull, has been elected president of the British Museums Association.

DR. W. J. HUMPHREYS, of the Weather Bureau, has been elected secretary of the American Geophysical Union, to succeed Dr. H. O. Wood, resigned.

E. G. MONTGOMERY, professor of agronomy in Cornell University, has been named by Secretary Hoover as chief of the food-stuffs division of the Bureau of Foreign Commerce.

MR. ROBERT C. DUNCAN, physicist of the Bureau of Standards, has accepted a position with the Bureau of Ordnance of the Navy Department.

PROFESSOR PAUL ANDERSON, dean of the School of Mechanical and Electrical Engineering at the University of Kentucky, has been appointed director of the research laboratory of the Heat Engineering Society at Pittsburgh.

EDWARD F. McCARTHY, of the New York State College of Forestry at Syracuse, has been assigned to the new forest experiment station of the U. S. Forest Service at Asheville, N. C.

PROFESSOR G. F. WARREN, of Cornell University, has been requested by Mr. Wallace, Secretary of Agriculture, to serve as consulting specialist to the chief of the Bureau of Markets and Crop Estimates during the re-organization and consolidation of the bureau. Professor Warren has accepted and has been granted leave of absence from Cornell until February 1, 1922.

DONALD D. SMYTH, instructor in economic geology at Cornell University, has accepted a position as geologist with the Cerro de Pasco Copper Corporation of Peru.

FOREIGN zoologists who attended the recent summer meeting of the American Phytopathological Society included Dr. E. J. Butler, director of the Imperial Bureau of Mycology, Kew Gardens, Surrey, England, and Dr. Kingo Miyabe, of the College of Agriculture, Hakkaido Imperial University, Sapporo, Japan.

DR. P. H. AASER, director of the Norwegian

State Hygienic Laboratory, Christiania, is visiting laboratories in the United States for the purpose of studying their organization, equipment and functions.

GALEN H. CLEVENGER, consulting metallurgist to the United States Smelting, Refining and Mining Company, and vice-chairman of the Engineering Division of the National Research Council, has returned to Boston after a sojourn of four months in Mexico, organizing and directing research.

PROFESSOR H. H. WHETZEL, of Cornell University, is planning to spend a year in Bermuda devoting his time to a survey of the fungi of the islands, especially those species causing plant diseases.

PROFESSOR ROLLIN T. CHAMBERLIN, who has been spending the spring and summer months in the Alps, in the study of the internal motion of glaciers by the use of a delicate time-recording shear-meter devised for the purpose, reports that he has obtained records of actual shear movement. The motion takes place by little starts and stops, as might be expected in an elastico-rigid body, and not by uniform or steadily progressive motion, as might be expected in a viscous body. After completing his glacial studies, about mid-summer, Professor Chamberlin expects to give some time to the structure of the Alps and to certain geological phenomena in Spain.

THE John Burroughs Memorial Association has been inaugurated at a meeting of a number of his friends at the American Museum of Natural History, the immediate purpose of the association being to protect Mr. Burroughs's home and camps and to preserve them, with their wild life, for future generations. The committee appointed to complete the organization included Dr. Frank M. Chapman, Dr. G. Clyde Fisher, Mr. Carl E. Akeley, Mr. Hamlin Garland, Judge A. T. Clearwater, Mr. Kermit Roosevelt, Mrs. Thomas A. Edison, Mrs. Henry Ford, and Mr. W. O. Roy.

A MEMORIAL window in the Episcopal Church of St. John's in the Wilderness, at Paul Smiths, N. Y., the gift of Mr. William Rockefeller, was dedicated on August 7 to the mem-

ory of the late Dr. Edward Livingston Trudeau.

WE learn from *Nature* that the council of the Society of Chemical Industry has decided to institute a Messel memorial lecture in memory of Dr. Rudolph Messel. A gold medal with an honorarium will be presented to the lecturer, and for the present the remainder of the income from the bequest to the society will be allowed to accumulate.

THE Royal Society proposes to erect a monument to Lord Lister in Portland-place, near the house where he lived. The necessary funds have been provided.

THE park that has been constructed opposite the headquarters of the national public health service in Havana has been named for Dr. Carlos J. Finlay, and a statue portraying him was recently unveiled. It stands in the center of the park, and it is proposed to place in the corners of the park statues of the three members of the American commission, Dr. Reed, Dr. Carroll, and Dr. Lazear, who with Dr. Agramonte, confirmed the transmission of yellow fever by the mosquito.

ORESTES M. ST. JOHN, formerly geologist on the surveys of Iowa and Illinois, has died at San Diego, California.

The British Medical Journal states that a scholarship has been founded at the Manchester Royal Infirmary primarily for the investigation of the claims made, especially in Germany, for the intensive X-ray treatment of cancer. The anonymous donor, however, desires that the inquiry shall include the study of the cancer problem from any point of view that may arise, and also an inquiry into the precautions that should be taken for the protection of persons working with highly penetrative rays. The scheme under which the scholar will work has been framed by a committee, consisting of Sir William Milligan, Professors H. R. Dean and W. L. Bragg, Dr. A. Burrows, Dr. Powell White, Mr. James Watts, and Dr. A. E. Barclay. Dr. C. C. Anderson has been appointed the first scholar, and will visit various centers where the intensive method is in use. He will then return

to Manchester to carry on the investigation in collaboration with other workers, who will attack the problems arising from the pathological and physiological standpoints. It is intended that the first visit should be made to Erlangen, but if time permits the scholar will afterwards visit Freiburg, Berlin and Mannheim, and certain centers in France, Holland and Sweden.

A REPORT of the British Interdepartmental Committee, which was asked to prepare a scheme for giving effect to the resolutions of the British Empire Forestry Conference with regard to a central institution for training forest officers, has been issued. The committee recommends that such an institution should be placed at Oxford and incorporated with the university. It should be governed by a board appointed one half by the departments or governments concerned, and the other half by the university. The board should have general charge of the higher course of training, of finance, and of administration. The director of the institution, who should be the professor of forestry, and the staff should be appointed by the university with the approval of the board. Pending the erection of buildings, arrangements can be made with the university for temporary accommodation. The committee says that the annual cost of the permanent staff should not at the beginning exceed £4,000 per annum. There will be a further liability on every department concerned for the university fees and subsistence, estimated at £300 a year for each probationer. Students should be selected by the departments for admission to the central institution from those who have taken a forestry degree at any university whose standard of education is approved by the board.

AT the last annual meeting of the American Physiological Society a fellowship for research in physiology was established by the generosity of Dr. Wm. T. Porter, of the Harvard Medical School. By resolution of the society, the council has been instructed to receive nominations and appoint the fellow for the year 1921-22 with a stipend of \$1,200.

The fellowship may be pursued at the university or institution where the particular problem being developed by the candidate can best be forwarded. The proposed program of investigation is limited only by the general purpose, namely, the pursuit of physiological research. But the program submitted by the candidate must meet the approval of the council of the society.

UNIVERSITY AND EDUCATIONAL NEWS

By the will of the late Frances Appleton Foster, of Weston, Mass., the Massachusetts Institute of Technology receives \$1,000,000 and Wellesley College \$500,000.

It is reported from the University of Manitoba that requirements for securing the gift of \$500,000 from the Rockefeller Foundation will be fully met and that another new building will be erected on the college grounds.

PROFESSOR R. R. FENSKA has resigned as assistant professor in forestry at the University of Montana to become professor of forest engineering at the New York State College of Forestry, Syracuse University.

MR. DWIGHT ISELY, scientific assistant in the United States Bureau of Entomology, has resigned and has accepted the position of associate professor in the Department of Entomology, University of Arkansas, and associate entomologist in the Experiment Station.

JOHN R. DU PRIEST, professor of steam and gas engineering and design in the Rensselaer Polytechnic Institute, and consulting engineer for the Endicott Machine Corporation, Baltimore, has been appointed assistant professor of mechanical engineering at the Oregon Agricultural College.

HERBERT C. HANSON, of the University of Colorado, has been appointed assistant professor of biology in the University of Arizona.

THE Linacre chair of zoology and comparative anatomy, at Oxford, vacant by the retirement of Professor G. C. Bourne, has been filled by the appointment of Professor E. S. Goodrich, fellow of Merton College and professor of comparative embryology in the university.